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TC 1700



22202, on

Case Docket No. SUGIM33.001AUS

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April 17, 2003

Katsuhiro Arai, Reg. No. 43,315

Date: April 17, 2003 Page 1

In re application of

Koichi Mukasa, et al.

App. No.

09/851,261

Filed

May 8, 2001

For

LASER WELDING HEAD-

CONTROLLING SYSTEM, A LASER WELDING HEAD AND A

METHOD FOR CONTROLLING A

LASER WELDING HEAD

Examiner

Len Tran

Art Unit

1725

UNITED STATES PATENT AND TRADEMARK OFFICE

P.O. Box 2327

Arlington, VA 22202

Sir:

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated as shown below:

CLAIMS AS FILED						
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE
Total Claims	11		20	= 0 ×	\$9	= \$0
Independent Claims	4	_	4	= 0 ×	\$42	= \$0
	3			TOTAL ADD		

- (X) The present application qualifies for small entity status under 37 C.F.R. § 1.27.
- (X) Amendment After Final in seven (7) pages.
- (X) Return prepaid postcard.
- Please charge any additional fees, including any fees for additional extension of time, or credit overpayment (X) to Deposit Account No. 11-1410.

Katsuhiro Arai

Registration No. 43,315

Agent of Record

Customer No. 20,995

(949) 760-0404

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

		OIPE	
Applicant	:	Mukasa, et al.) Group Art Unit 1725
Appl. No.	:	09/851,261	RECE!
Filed	:	May 8, 2001	APR 25 20
For	:	LASER WELDING HEAD- CONTROLLING SYSTEM, A LASER WELDING HEAD AND A METHOD FOR CONTROLLING A LASER WELDING HEAD	RECEIVED APR 25 2003 TC 1700
Examiner	:	L. Tran)

AMENDMENT AFTER FINAL

United States Patent Office and Trademark P.O. Box 2327 Arlington, VA 22202

Dear Sir:

In response to the final Office Action mailed January 29, 2003 (Paper number 10), please amend the above-identified application as follows:

IN THE CLAIMS:

Claims 1, 3, 7 and 10 have been amended as follows:

1. (Amended) A laser welding head-controlling system comprising:

a laser irradiating body with a laser inlet and a laser outlet,

plural semiconductor lasers to oscillate plural linear laser beams configured to be crisscrossed) over a seam line for measuring a welding state,

a CCD camera with a band-pass filter therein to pass through only linear laser beams reflected by objects to be welded to take in, as an image, said welding state by said reflected beams, and

an image processor to process said image of said welding state.

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